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**From:** Chism, William [Chism.Bill@epa.gov]  
**Sent:** 9/4/2020 2:09:28 PM  
**To:** Bradley, Kevin [bradleyke@missouri.edu]; lee.vanwychen@wssa.net; Tindall, Kelly [tindall.kelly@epa.gov]  
**Subject:** RE: Any Update on Dicamba Resistance in Waterhemp or Other Weeds

Thank you Kevin.

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Bill Chism  
Senior Biologist  
Biological and Economic Analysis Division  
U.S. EPA/Office of Pesticide Programs  
(571) 242-0254 Cell phone while on telework  
[chism.bill@epa.gov](mailto:chism.bill@epa.gov)

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**From:** Bradley, Kevin <[bradleyke@missouri.edu](mailto:bradleyke@missouri.edu)>  
**Sent:** Thursday, September 03, 2020 10:04 PM  
**To:** Chism, William <[Chism.Bill@epa.gov](mailto:Chism.Bill@epa.gov)>; lee.vanwychen@wssa.net; Tindall, Kelly <[tindall.kelly@epa.gov](mailto:tindall.kelly@epa.gov)>  
**Subject:** Re: Any Update on Dicamba Resistance in Waterhemp or Other Weeds

That is more than appropriate. And yes you can cite us.

Kevin

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**From:** "Chism, William" <[Chism.Bill@epa.gov](mailto:Chism.Bill@epa.gov)>  
**Date:** Thursday, September 3, 2020 at 2:11 PM  
**To:** "Bradley, Kevin" <[bradleyke@missouri.edu](mailto:bradleyke@missouri.edu)>, Lee VanWychen <[lee.vanwychen@wssa.net](mailto:lee.vanwychen@wssa.net)>, "Tindall, Kelly" <[tindall.kelly@epa.gov](mailto:tindall.kelly@epa.gov)>  
**Subject:** RE: Any Update on Dicamba Resistance in Waterhemp or Other Weeds

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Hi Kevin

I'm back working on the waterhemp resistance description. Could I say while there are no new populations of dicamba resistant waterhemp there are populations from three states that exhibit reduced sensitivity to dicamba? Or is that going a bit too far? If the sentence seems appropriate can we cite you as our source?

Thanks. Bill

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Bill Chism  
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**From:** Bradley, Kevin <[bradleyke@missouri.edu](mailto:bradleyke@missouri.edu)>

**Sent:** Friday, August 28, 2020 9:34 AM

**To:** Chism, William <[Chism.Bill@epa.gov](mailto:Chism.Bill@epa.gov)>; [lee.vanwychen@wssa.net](mailto:lee.vanwychen@wssa.net); [hartzler@iastate.edu](mailto:hartzler@iastate.edu); [hager@illinois.edu](mailto:hager@illinois.edu); [wgj@purdue.edu](mailto:wgj@purdue.edu); Tindall, Kelly <[tindall.kelly@epa.gov](mailto:tindall.kelly@epa.gov)>

**Cc:** Bryan Young <[BryanYoung@purdue.edu](mailto:BryanYoung@purdue.edu)>

**Subject:** Re: Any Update on Dicamba Resistance in Waterhemp or Other Weeds

Bill, the United Soybean Board has funded a project for the past two seasons that involves us screening waterhemp populations from several states. This is just an initial screen to determine the likelihood of resistance in a given population and so we are only using 1/2 and 1X rates of dicamba on small, 3-4 inch waterhemp plants. We have had a lot of populations to screen the past two seasons and so we haven't yet been able to take the most suspicious populations and subject them further to a true dose-response to determine resistance. Some preliminary results of our screenings are shown in the attached slides. Although no one I know of has come out with an "official" dicamba-resistant waterhemp population yet, I receive a number of calls each year about not being able to effectively control waterhemp with dicamba already after just 2 or 3 seasons. Obviously there could be many reasons for these failures but based on these calls/visits/etc. coupled with the results we are already seeing from our screening in the attached slides, I'm pretty sure there are already dicamba-resistant waterhemp populations out there, we just haven't confirmed them yet.

Kevin Bradley

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**From:** "Chism, William" <[Chism.Bill@epa.gov](mailto:Chism.Bill@epa.gov)>

**Date:** Friday, August 28, 2020 at 8:06 AM

**To:** Lee VanWychen <[lee.vanwychen@wssa.net](mailto:lee.vanwychen@wssa.net)>, Bob Hartzler <[hartzler@iastate.edu](mailto:hartzler@iastate.edu)>, "[hager@illinois.edu](mailto:hager@illinois.edu)" <[hager@illinois.edu](mailto:hager@illinois.edu)>, Bill Johnson <[wgj@purdue.edu](mailto:wgj@purdue.edu)>, "Bradley, Kevin" <[bradleyke@missouri.edu](mailto:bradleyke@missouri.edu)>, "Tindall, Kelly" <[tindall.kelly@epa.gov](mailto:tindall.kelly@epa.gov)>

**Subject:** Any Update on Dicamba Resistance in Waterhemp or Other Weeds

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Hello Gentlemen

The Office of Pesticide Programs is working on the registration of over-the-top dicamba for cotton and soybeans. We have found some new reports of dicamba resistance in Palmer amaranth but very little discussion of waterhemp. In 2019 there was a short description of dicamba-resistant waterhemp in the Progressive Farmer (below). Is there anything you can share about dicamba-resistant waterhemp? Are there any other weed species that you are aware of where dicamba is showing signs of potential resistance?

Thank you. Bill Chism

<https://www.dtnpf.com/agriculture/web/ag/crops/article/2019/08/30/possible-dicamba-resistance-cropping>

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